

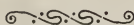
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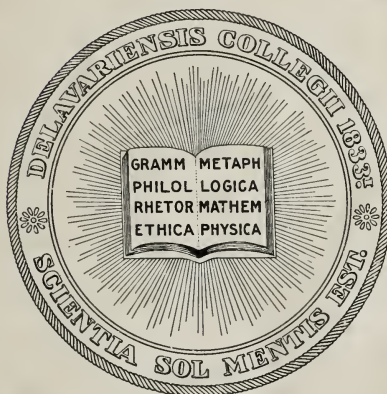
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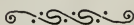
DELAWARE COLLEGE



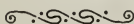
SHORT COURSE IN
AGRICULTURE,

BEGINS JANUARY 3, 1905.

ENDS MARCH 10, 1905.



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FOUR TIMES A YEAR IN
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Application made for entry as second class matter at the Post Office at
Newark, Delaware.

OFFICERS AND INSTRUCTORS

IN THE

SHORT COURSE IN AGRICULTURE.

GEORGE A. HARTER, PH. D., *President of the College.*

JAMES A. FOORD, M. S. A., *Agriculture, Animal Husbandry, Dairying.*
IN CHARGE OF THE SHORT COURSE.

CHARLES P. CLOSE, M. S., *Horticulture.*

CHARLES L. PENNY, M. A., *Chemistry.*

FREDERICK D. CHESTER, M. S., *Plant Diseases.*

THEODORE R. WOLF, PH. D., *Sanitary Science.*

HIRAM P. EVES, D. V. M., *Veterinary Science.*

CLINTON O. HOUGHTON, B. A., *Entomology.*

MERRILL VAN G. SMITH, M. E., *Farm Machinery.*

LEE O. WILLIS, B. M. E., *Shopwork.*

CLARENCE A. SHORT, B. C. E., *Rural Law.*



RECITATION HALL.

ANNOUNCEMENT.

THE SHORT COURSE IN AGRICULTURE at Delaware College is planned to help those young men who intend to follow Agriculture as a business, but who feel that they cannot spare the time for a longer course.

Agricultural Education has already proved its value, and in every State in the Union, intelligent, educated men are making a success of farming far greater than it was possible to make fifty years ago and comparing very favorably with other occupations and professions of life. The young man who prefers country life, can now find in practical Agriculture, abundant opportunity and financial returns for intelligent thought and study, and the exercise of sound business judgment and methods. This is especially true in the State of Delaware, with its easily tilled soil, genial climate, and nearness to the large cities, and good markets.

The Short Course in Agriculture for the current college year begins January 3, 1905, and lasts for ten weeks, thus coming at a time when farm work is least urgent. The instruction given will be made as practical as time and equipment will allow ; whenever it is possible students will learn to do by doing. Class room, laboratory, and practicum work will each receive attention.

The course has been arranged so that students may, if they wish, specialize in horticulture and vegetable gardening, or in animal husbandry and dairying. As far as possible the individual needs of each student will be considered. Students wishing to take special work in any line may do so provided the faculty consider their preparation sufficient, and if three students desire it, a class will be formed.

COURSES OF INSTRUCTION.

Agricultural Chemistry.

PROF. C. L. PENNY.

A short course of lectures on some of the more important facts and principles of chemistry with special reference to agriculture. These lectures will treat of the elements and compounds occurring in soils, feeds, and fertilizers, with demonstrations and experiments in the laboratory. The relation of chemical laws to scientific agriculture as well as to the daily farm life will be considered.

Daily lectures or laboratory work during the first four weeks of the course.

Soils and Fertilizers.

PROF. J. A. FOORD.

The application of chemistry to the care and improvement of the land. Soil fertility, upon what it depends, and how to maintain and increase it. The purchase and economical use of commercial fertilizers, amendments, and farm manures.

Daily lectures, recitations, or laboratory work during the last six weeks of the course.

Plant Diseases.

PROF. F. D. CHESTER.

How to preserve the plant in health and thus render it resistant to disease ; relation of fungi to plant diseases ; legislation against diseases ; preparation and application of fungicides ; consideration of diseases of special crops, as cereals, small fruits, orchard fruit, and vegetables.

Two lectures per week, with laboratory work on specimens of diseased plants and in the preparation and application of fungicides.



STUDENTS STUDYING SPRAYING MACHINERY.

Horticulture.

PROF. C. P. CLOSE.

Fruit Culture.—In this work the student receives instruction in the propagation of fruits by seeding, budding, grafting, layering, and cuttings; in tree, vine, and bush planting and pruning; in the location, care, and cultivation of orchards and small fruit plantations; and in the choice of varieties for Delaware.

One afternoon each week is given to laboratory and orchard work.

Three exercises a week.

Vegetable Gardening.—This work includes the history and improvement of garden vegetables; their propagation and care both out of doors and in the forcing house; the special requirements of each kind, and the most desirable varieties to grow for home use and for market. Special attention will be given to hot bed construction and management.

Two exercises a week.

Economic Entomology.

PROF. C. O. HOUGHTON.

Lectures, recitations and occasional laboratory work on the insects injurious to orchard, garden and field crops. An account of the external and internal anatomy of insects will be given; of their life histories; of their injury to the various crops; and of the means of holding them in control. Specimens of the insects under consideration will be placed before the class for examination.

Students whose time will permit may take special laboratory work in structure and classification of insects.

Three exercises a week.

Animal Husbandry.

PROF. J. A. FOORD.

The history and development of our modern breeds of live stock; the principles of breeding, feeding, care and management; methods of improving farm stock.

Students will be given practice in judging and the use of the score card, also in tracing pedigrees and in formulating rations for farm animals.

Three lectures or recitations and one practicum each week.

Animal Diseases.

DR. H. P. EVES.

Study of the structure and uses of the organs of domestic animals; the action and use of medicines. Lectures upon specific diseases, in which special stress is laid upon methods of prevention; determination of age of animals; methods of treating emergencies and accidents. How to keep animals healthy.

Lectures, with clinics when subjects can be obtained.

Farm Dairying.

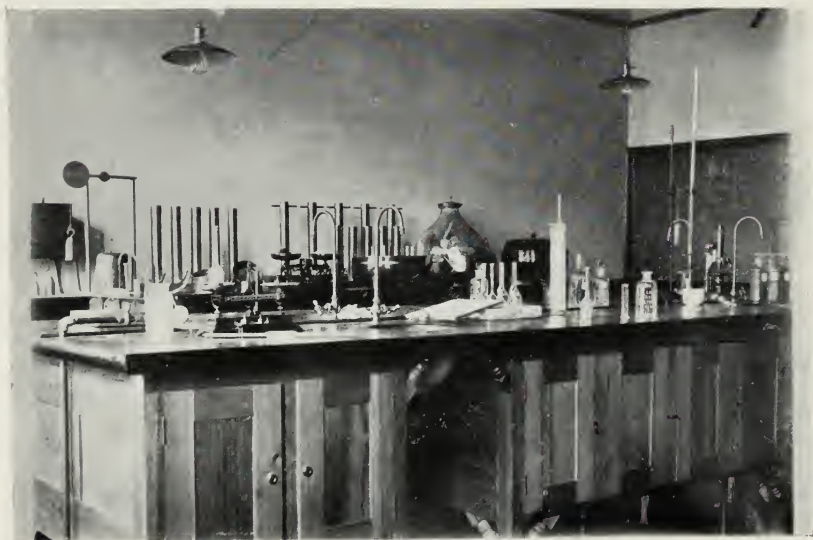
PROF. J. A. FOORD.

The production and care of milk and its manufacture into other products; butter and cheese making; dairy bacteriology and its relation to the production of sanitary milk for the city markets.

The farm dairy and its equipment.

Students will be given practice in making "Babcock Test" for fat in milk; also in testing for adulteration and acidity.

Two lectures or recitations and one practicum each week.



AGRICULTURAL LABORATORY.

Sanitary Science.

DR. T. R. WOLF.

The instruction in this important study is thoroughly practical, and embraces recitations and lectures on the following subjects: water, air and food; disposal and utilization of sewage; origin and spread of epidemics; disinfectants and their uses; heating and ventilation of buildings.

Eight exercises.

Shop Work.

MR. LEE O. WILLIS.

Practical instruction in the handling and care of tools for working wood.

Blacksmithing and forge-work; heating and welding iron and steel.

One afternoon each week.

Agricultural Machinery.

PROFESSORS M. VAN G. SMITH AND J. A. FOORD.

Practical work in taking down and putting together different agricultural machines, with talks upon the principles involved. Power for farm purposes with practice in running small engines.

One exercise each week.

Poultry.

PROF. J. A. FOORD.

The different breeds of poultry and the purposes for which each breed is best adapted. Feeding and care of stock for egg production and market. Construction of poultry houses, incubators and brooders.

Practice in running incubators.

Two exercises a week.

Business Methods and Rural Law.

PROFESSORS J. A. FOORD AND C. A. SHORT.

A discussion of business methods and their application to the farm. Practical work in keeping farm accounts. A simple system by which the profits and losses of the farm may be traced to their original sources. Rural law.

Two exercises each week.

Lectures will be given from time to time by members of the College Faculty and visiting specialists, upon topics of general interest. Open to all students and the public.



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Requirements for Admission.

Satisfactory evidence of good moral character is the only requirement for entrance to the Short Course.

Applicants should be at least sixteen years of age and have a common school education. Those intending to take this course are urged to review their school work in English and Arithmetic.

Students are expected to register with the Professor of Agriculture on January 2, 1905, so that they may be ready to begin work promptly on the morning of January 3.

Expenses.

Tuition is free to residents of Delaware. Books may cost from \$3.00 to \$5.00. Board and rooms may be obtained in private families from \$4.00 to \$5.00 per week.

Board in the College Club costs from \$3.50 to \$3.75 per week.

Students who wish to can no doubt keep the total expense of the course down to \$50.00.

The College also offers a Two Years Course in Agriculture, and a Four Years Course leading to a degree.

For further information or with reference to any matter of interest to the farmers of the State, address :

J. A. FOORD,

Professor of Agriculture.

Newark, Delaware.

For information concerning the courses in Classics, Science or Engineering, address :

President, GEO. A. HARTER,

Newark, Delaware.

